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## "LIGHTING EQUIPMENT"

PCT/IT2005/000186

## CLAIMS

- 1. A lamp characterised by the fact that it comprises a first and respectively second elements with longitudinal elongation placed in line, having at one of their ends, a first flat base and respectively a second flat base on an inclined plane with respect to the corresponding longitudinal axis, and a first and respectively a second straight sections having the same external perimeter, and wherein said first and second flat bases rest on a common contact plane, have the same external perimeter and turn on a common axis of rotation passing through their centre at right angles to said contact plane.
- 2. A lamp according to claim 1, characterised in that said first base and second base have a circular perimeter.
- 3. A lamp according to claim 1, characterised in that said first base and second base have a square perimeter
- 4. A lamp according to claim 1, characterised in that said first and second straight sections respectively are in correspondence with said end of said first element and, respectively, second element with longitudinal elongation.
- 5. A lamp according to one or more of the previous claims, characterised in that it comprises a rotating group having at least one first and, respectively, second rotating elements turning on said axis of rotation and constrained in respect to the translation along said axis of rotation, and means of support for said rotating group comprising a first support plate of said first

11

rotating element associated with said first longitudinal element, and a second plate associated with said second longitudinal element and engaged with said second rotating element.

6. A lamp according to one or more of the previous claims, characterised in that said first support plate holds said rotating group positioning it through said contact plane.

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- 7. A lamp according to one or more of the previous claims, characterised in that said first and second rotating elements respectively comprise a first and a second coaxial cap fitting one into the other with axis coincident with said axis of rotation.
- 8. A lamp according to one or more of the previous claims, characterised in that said first and second cap respectively extend externally and perimetrically in a first and second flange respectively in reciprocal contact along said contact plane.
- 9. A lamp according to one or more of the previous claims, characterised in that said rotating group comprises furthermore an axial stop element of the second rotating element, located inside said second rotating element and rigidly fixed to the first rotating element through the wall thickness of the second rotating element.
- 10. A lamp according to one or more of the previous claims, characterised in that said rotating group comprises furthermore blocking means to arrest the relative rotation step by step between said first and second rotating elements.
- 11. A lamp according to one or more of the previous claims, characterised in that said blocking means comprise an insert rotating together

12

with said first rotating element and sliding along said axis of rotation, and first engaging members between said insert and said second rotating element which can become engaged at each step of said rotation.

12. A lamp according to one or more of the previous claims, characterised in that said first engaging members comprise a first group of engaging devices and a second group of engaging devices kept in contact, in contrast and through the action of a elastic element.

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- 13. A lamp according to one or more of the previous claims, characterised in that said insert comprises a third cap fitting into said second rotating element.
- 14. A lamp according to one or more of the previous claims, characterised in that said third cap comprises a lateral wall and an annular base through which a check device is positioned.
- 15. A lamp according to one or more of the previous claims, characterised in that said insert slides guided between the internal lateral wall of said second rotating element and the external lateral wall of said check device.
- 16. A lamp according to one or more of the previous claims, characterised in that said elastic element comprises a helicoid spring.
- 17. A lamp according to one or more of the previous claims, characterised in that said insert forms with said check device an annular housing in which said helicoid spring is located and compressed, with axis placed along said axis of rotation.
- 18. A lamp according to one or more of the previous claims, characterised in that said annular housing is closed at its axial ends by said

13

annular base of said insert and by a third top, perimetral flange of said check device, projecting towards the lateral wall of the insert.

19. A lamp according to one or more of the previous claims, characterised in that said rotating group furthermore comprises second engaging means between the insert and the check device so as to selectively block the relative rotation but not the relative axial translation between the insert and the check device.

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- 20. A lamp according to one or more of the previous claims, characterised in that said engaging means comprise a number of projections, or respectively, impressions, formed along the internal perimeter of the annular base of the sliding insert in a number of corresponding impressions, or respectively corresponding projections, formed perimetrically to the lateral wall of said check device.
- 21. A lamp according to one or more of the previous claims, characterised in that said first and respectively second number of engaging means are formed by a shaping of the profile of a fourth flange extending perimetrally and externally to the lateral wall of insert and respectively by a counter shaping of the second flange
- 22. A lamp according to one or more of the previous claims, characterised in that it has a third mechanical engaging means and fourth screw engaging members between the second flange of the second rotating element and the second plate.
- 23. A lamp according to one or more of the previous claims, characterised in that said third engaging devices comprise at least one press-fit device, fitting into at least one corresponding receptacle.

14

24. A lamp according to one or more of the previous claims, characterised in that said fifth screw engaging members are located between the first flange of the first rotating element and the first plate.

25. A lamp according to one or more of the previous claims, characterised in that said first longitudinal element holds and is associated with at least one lighting element and said second longitudinal element forms a support for said lamp or vice versa.

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26. An assembly process of a lamp comprising a first and second elements with longitudinal elongation rotating on a common axis of rotation passing at right angles through the centre of a contact plane along which a first flat base of said longitudinal element is associated and a second flat base of said second longitudinal element, characterised by the fact that of providing having a first and second rotating element relatively turning a rotating group on said axis of rotation and secured in respect to the translation along said axis of rotation; applying said rotating group to said first longitudinal element; fixing said first rotating element to a first support plate secured to said first longitudinal element; applying a second plate to said second longitudinal element, fitting said second plate into to said second rotating element by mechanical pressure, turning said first longitudinal element in respect to said second longitudinal element so as to offset said first base in respect to said second base in order to uncover the locations of engaging screws between said second rotating element and said second plate, and screwing said engaging elements into relative locations.